

OIIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/918,702

DATE: 08/10/2001

TIME: 08:02:00

Input Set : A:\1822-113.doc

Output Set: N:\CRF3\08102001\I918702.raw

4 <110> APPLICANT: Benvenisty, Nissim

6 <120> TITLE OF INVENTION: Directed Differentiation of Embryonic Stem
7 Cells

9 <130> FILE REFERENCE: 1822/113

C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/918,702

C--> 11 <141> CURRENT FILING DATE: 2001-07-31

11 <160> NUMBER OF SEQ ID NOS: 73

13 <170> SOFTWARE: FastSEQ for Windows Version 4.0

15 <210> SEQ ID NO: 1

16 <211> LENGTH: 50

17 <212> TYPE: DNA

18 <213> ORGANISM: Homo sapien.

20 <220> FEATURE:

21 <223> OTHER INFORMATION: 50-mer 2'-O-methyl 5-biotinylated cDNA probe of
22 NF-L

24 <400> SEQUENCE: 1

25 cctgcgtgcg gatggacttg aggtcgttgc tgatggcggc tacctggctc 50

27 <210> SEQ ID NO: 2

28 <211> LENGTH: 26

29 <212> TYPE: DNA

30 <213> ORGANISM: Homo sapien

32 <220> FEATURE:

33 <223> OTHER INFORMATION: DNA primer for human dopa decarboxylase

35 <400> SEQUENCE: 2

36 tctgtgcctc ttaactgtca ctgtgg 26

38 <210> SEQ ID NO: 3

39 <211> LENGTH: 25

40 <212> TYPE: DNA

41 <213> ORGANISM: Homo sapien

43 <220> FEATURE:

44 <223> OTHER INFORMATION: DNA primer for human dopa decarboxylase

46 <400> SEQUENCE: 3

47 atcatcacag tctccagctc tgtgc 25

49 <210> SEQ ID NO: 4

50 <211> LENGTH: 20

51 <212> TYPE: DNA

52 <213> ORGANISM: Homo sapien

54 <220> FEATURE:

55 <223> OTHER INFORMATION: 5' primer of alpha-feto protein

57 <400> SEQUENCE: 4

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60 <210> SEQ ID NO: 5

61 <211> LENGTH: 20

62 <212> TYPE: DNA

63 <213> ORGANISM: Homo sapien

65 <220> FEATURE:

66 <223> OTHER INFORMATION: 3' primer of alpha-feto protein

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68 <400> SEQUENCE: 5
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72 <211> LENGTH: 25
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74 <213> ORGANISM: Homo sapien
76 <220> FEATURE:
77 <223> OTHER INFORMATION: 5' primer of alpha 1 anti-trypsin
79 <400> SEQUENCE: 6
80 agaccctttg aagtcaagga caccg 25
82 <210> SEQ ID NO: 7
83 <211> LENGTH: 25
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapien
87 <220> FEATURE:
88 <223> OTHER INFORMATION: 3' primer of alpha 1 anti-trypsin
90 <400> SEQUENCE: 7
91 ccattgctga agaccttagt gatgc 25
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 25
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapien
98 <220> FEATURE:
99 <223> OTHER INFORMATION: 5' primer of Activin Receptor type 11B
101 <400> SEQUENCE: 8
102 acacgggagt gcatctacta caacg 25
104 <210> SEQ ID NO: 9
105 <211> LENGTH: 25
106 <212> TYPE: DNA
107 <213> ORGANISM: Homo sapien
109 <220> FEATURE:
110 <223> OTHER INFORMATION: 3' primer of Activin Receptor type 11B
112 <400> SEQUENCE: 9
113 ttcatgagct gggccttcca gacac 25
115 <210> SEQ ID NO: 10
116 <211> LENGTH: 26
117 <212> TYPE: DNA
118 <213> ORGANISM: Homo sapien
120 <220> FEATURE:
121 <223> OTHER INFORMATION: 5' primer of Albumin
123 <400> SEQUENCE: 10
124 cctttggcac aatgaagtgg gtaacc 26
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127 <211> LENGTH: 25
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapien
131 <220> FEATURE:
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134 <400> SEQUENCE: 11

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135 cagcagtcag ccatttcacc atagg                25
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140 <213> ORGANISM: Homo sapien
142 <220> FEATURE:
143 <223> OTHER INFORMATION: 5' primer of Amylase
145 <400> SEQUENCE: 12
146 gctgggctca gtattcccca aatac                25
148 <210> SEQ ID NO: 13
149 <211> LENGTH: 25
150 <212> TYPE: DNA
151 <213> ORGANISM: Homo sapien
153 <220> FEATURE:
154 <223> OTHER INFORMATION: 3' primer of Amylase
156 <400> SEQUENCE: 13
157 gacgacaatc tctgacctga gtagc                25
159 <210> SEQ ID NO: 14
160 <211> LENGTH: 25
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapien
164 <220> FEATURE:
165 <223> OTHER INFORMATION: 5' primer of Beta-Actin
167 <400> SEQUENCE: 14
168 tggcaccaca ctttctacaa tgagc                25
170 <210> SEQ ID NO: 15
171 <211> LENGTH: 25
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapien
175 <220> FEATURE:
176 <223> OTHER INFORMATION: 3' primer of Beta-Actin
178 <400> SEQUENCE: 15
179 gcacagcttc tccttaatgt cacgc                25
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182 <211> LENGTH: 25
183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapien
186 <220> FEATURE:
187 <223> OTHER INFORMATION: 5' primer of Beta-Globin
189 <400> SEQUENCE: 16
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192 <210> SEQ ID NO: 17
193 <211> LENGTH: 25
194 <212> TYPE: DNA
195 <213> ORGANISM: Homo sapien
197 <220> FEATURE:
198 <223> OTHER INFORMATION: 3' primer of Beta-Globin
200 <400> SEQUENCE: 17
201 tagccacacc agccaccact ttctg                25

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203 <210> SEQ ID NO: 18
204 <211> LENGTH: 25
205 <212> TYPE: DNA
206 <213> ORGANISM: Homo sapien
208 <220> FEATURE:
209 <223> OTHER INFORMATION: 5' primer of Bone Morphogenic Protein 4 Receptor
210     type 11
212 <400> SEQUENCE: 18
213 tctgcagcta ggtcctctca tcagc                                25
215 <210> SEQ ID NO: 19
216 <211> LENGTH: 25
217 <212> TYPE: DNA
218 <213> ORGANISM: Homo sapien
220 <220> FEATURE:
221 <223> OTHER INFORMATION: 3' primer of Bone Morphogenic Protein 4 Receptor
222     type 11
224 <400> SEQUENCE: 19
225 tatactgctc catatcgacc tcggc                                25
227 <210> SEQ ID NO: 20
228 <211> LENGTH: 20
229 <212> TYPE: DNA
230 <213> ORGANISM: Homo sapien
232 <220> FEATURE:
233 <223> OTHER INFORMATION: 5' primer of Cardiac Actin
235 <400> SEQUENCE: 20
236 tctatgaggg ctacgctttg                                20
238 <210> SEQ ID NO: 21
239 <211> LENGTH: 20
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapien
243 <220> FEATURE:
244 <223> OTHER INFORMATION: 3' primer of Cardiac Actin
246 <400> SEQUENCE: 21
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249 <210> SEQ ID NO: 22
250 <211> LENGTH: 25
251 <212> TYPE: DNA
252 <213> ORGANISM: Homo sapien
254 <220> FEATURE:
255 <223> OTHER INFORMATION: 5' primer of Cartilage Matrix Protein
257 <400> SEQUENCE: 22
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260 <210> SEQ ID NO: 23
261 <211> LENGTH: 25
262 <212> TYPE: DNA
263 <213> ORGANISM: Homo sapien
265 <220> FEATURE:
266 <223> OTHER INFORMATION: 3' primer of Cartilage Matrix Protein
268 <400> SEQUENCE: 23

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269 ctggttgatg gtcttgaagt cagcc 25
271 <210> SEQ ID NO: 24
272 <211> LENGTH: 25
273 <212> TYPE: DNA
274 <213> ORGANISM: Homo sapien
276 <220> FEATURE:
277 <223> OTHER INFORMATION: 5' primer of Delta-Globin
279 <400> SEQUENCE: 24
280 accatggtgc atctgactcc tgagg 25
282 <210> SEQ ID NO: 25
283 <211> LENGTH: 25
284 <212> TYPE: DNA
285 <213> ORGANISM: Homo sapien
287 <220> FEATURE:
288 <223> OTHER INFORMATION: 3' primer of Delta-Globin
290 <400> SEQUENCE: 25
291 acttgtgagc caaggcatta gccac 25
293 <210> SEQ ID NO: 26
294 <211> LENGTH: 26
295 <212> TYPE: DNA
296 <213> ORGANISM: Homo sapien
298 <220> FEATURE:
299 <223> OTHER INFORMATION: 5' primer of Dopamine Beta Hydroxylase
301 <400> SEQUENCE: 26
302 cacgtactgg tgctacatta aggagc 26
304 <210> SEQ ID NO: 27
305 <211> LENGTH: 25
306 <212> TYPE: DNA
307 <213> ORGANISM: Homo sapien
309 <220> FEATURE:
310 <223> OTHER INFORMATION: 3' primer of Dopamine Beta Hydroxylase
312 <400> SEQUENCE: 27
313 aatggccatc actggcgtgt acacc 25
315 <210> SEQ ID NO: 28
316 <211> LENGTH: 24
317 <212> TYPE: DNA
318 <213> ORGANISM: Homo sapien
320 <220> FEATURE:
321 <223> OTHER INFORMATION: 5' primer of Enolase
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326 <210> SEQ ID NO: 29
327 <211> LENGTH: 25
328 <212> TYPE: DNA
329 <213> ORGANISM: Homo sapien
331 <220> FEATURE:
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334 <400> SEQUENCE: 29
335 tgcgtccagc aaagattgcc ttgtc 25

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/918,702

DATE: 08/10/2001

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date